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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/884,674	06/19/2001	Jim Chu	884.441US1	3214
7590 12/28/2006 Schwegman, Lundberg, Woessner & Kluth, P.A. P.O. Box 2938			EXAMINER	
			LEE, PHILIP C	
Minneapolis, N	MN 55402		ART UNIT PAPER NUMBER	
			2152	
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SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MC	SHTING	12/28/2006	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)					
	09/884,674	CHU ET AL.					
Office Action Summary	Examiner	Art Unit					
	Philip C. Lee	2152					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this commaction. - If NO period for reply is specified above, the maximum statutory period was preply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tile will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).					
Status		· ·					
1) Responsive to communication(s) filed on 18 O	ctober 2006.						
	action is non-final.						
· 							
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>1,3-11 and 19-30</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1,3-11 and 19-30</u> is/are rejected.	6)⊠ Claim(s) <u>1,3-11 and 19-30</u> is/are rejected.						
7) Claim(s) is/are objected to.	Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct	- · · · · · · · · · · · · · · · · · · ·						
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	e Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
. 1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the prior	rity documents have been receiv	ed in this National Stage					
application from the International Bureau	ı (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list	of the certified copies not receive	ed.					
:	•						
Attachment(s)							
1) 🔀 Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application							
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:							

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1. This action is responsive to the amendment and remarks filed on October 18, 2006.

- 2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 09/19/2006 has been entered.
- 3. Claims 1, 3-11 and 19-30 are presented for examination.
- 4. The text of those sections of Title 35, U.S. code not included in this office action can be found in a prior office action.

Claim Rejections - 35 USC 112

- 3. Claims 8-11 and 19-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
 - a. Claim language in the following claims is not clearly understood:
 - i. As per claim 8, line 1, the term "tangible" renders the scope of the claim undeterminable.

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Claim Rejections - 35 USC 103

- 5. Claims 1, 3-11, 19-20 and 25-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Emens et al, U.S. Patent 6,606,643 (hereinafter Emens) in view of Ramanathan et al, U.S. Patent 5,913,041 (hereinafter Ramanathan).
- 6. Emens and Ramanathan were cited in the last office action.
- 7. As per claim 1, Emens taught the invention substantially as claimed for managing a plurality of sources comprising:

selecting an empirical measurement of a performance of each of the plurality of sources (col. 3, lines 47-58);

selecting a source in reference to the empirical measurement of the performance of each of the plurality of sources (col. 3, line 66-col. 4, line 3); and initiating a download of data from a download source of the plurality of sources (abstract; col. 1, lines 10-14; col. 8, lines 20-24; col. 9, lines 59-64).

8. Emens did not teach selecting according to a size of data to be obtained. Ramanathan taught the method comprising selecting an empirical measurement of a performance of each of the plurality of sources, wherein the empirical measurement is selected according to a size of data to be obtained (col. 9, lines 15-23, and 38-59; col. 7, lines 45-50) (i.e., throughput measurement is set (selected) only for transfer exceeding 70 KBtyes).

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- 9. It would have been obvious to one having ordinary skill in the art at the time of the invention was made to combine the teachings of Emens and Ramanathan because Ramanathan's teaching of selecting an empirical measurement according to a size of data to be obtained would increase the accuracy of Emens's system by allowing performance evaluation based on the size of the transfer data(col. 3, lines 15-27).
- 10. As per claims 8 and 10, Emens taught the invention substantially as claimed for managing a plurality of sources, wherein executable instructions capable of directing a processor to perform:

selecting an empirical measurement of a throughput speed of each of the plurality of sources (col. 3, lines 47-58);

selecting a source in reference to the empirical measurement of the throughput speed of each of the plurality of sources (col. 3, line 66-col. 4, line 3) (Note that the throughput speed is interpreted as the throughput time (i.e. roundtrip time) as defined according to the specification, page 17, lines 1-7, if the size of the transmission and response is equal for each source tested.); and

initiating a download of data from a download source of the plurality of sources (abstract; col. 1, lines 10-14; col. 8, lines 20-24; col. 9, lines 59-64).

11. Emens did not teach selecting according to a size of data to be obtained. Ramanathan taught the method comprising selecting an empirical measurement of a throughput of each of the

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plurality of sources, wherein the empirical measurement is selected according to a size of data to be obtained (col. 9, lines 15-23, and 38-59; col. 7, lines 45-50) (i.e., throughput measurement is set (selected) only for transfer exceeding 70 KBtyes).

- 12. It would have been obvious to one having ordinary skill in the art at the time of the invention was made to combine the teachings of Emens and Ramanathan because Ramanathan's teaching of selecting an empirical measurement according to a size of data to be obtained would increase the accuracy of Emens's system by allowing performance evaluation based on the size of the transfer data(col. 3, lines 15-27).
- 13. As per claim 25, Emens taught the invention substantially as claimed for managing sources in a peer-to-peer network (i.e. data can be exchange freely between two computer) (col. 4, lines 19-22) comprising:

a processor (inherently comprised); and software means operative on the processor for selecting an empirical measurement of a throughput speed of each of the plurality of sources (col. 3, lines 47-58; col. 3, line 66-col. 4, line 3);

the software means selecting a source in reference to the empirical measurements of the throughput speed of each of the plurality of sources (col. 3, lines 47-58; col. 3, line 66-col. 4, line 3); and

a transmitter to initiate a download of data to a download source of the plurality of sources (abstract; col. 1, lines 10-14; col. 8, lines 20-24; col. 9, lines 59-64).

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- Emens did not teach selecting according to a size of data to be obtained. Ramanathan taught the method comprising selecting an empirical measurement of a throughput of each of the plurality of sources, wherein the empirical measurement is selected according to a size of data to be obtained (col. 9, lines 15-23, and 38-59; col. 7, lines 45-50) (i.e., throughput measurement is set (selected) only for transfer exceeding 70 KBtyes); and software means including obtainer means to obtain an empirical measurement of a throughput speed of each of the plurality of sources from at least one third-party source (e.g. content server) (col. 3, lines 43-58; col. 5, lines 48-51; col. 6, lines 38-49).
- 15. It would have been obvious to one having ordinary skill in the art at the time of the invention was made to combine the teachings of Emens and Ramanathan because Ramanathan's teaching of selecting an empirical measurement according to a size of data to be obtained would increase the accuracy of Emens's system by allowing performance evaluation based on the size of the transfer data(col. 3, lines 15-27).
- As per claim 28, Emens taught the invention substantially as claimed comprising:

 a determiner (e.g. the calibration applets) of an empirical measurement of a throughput speed of each of the plurality of download peer-to-peer network sources (i.e. data can be exchange freely between two computer) (col. 4, lines 19-22; col. 7, lines 44-54);

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a selector (e.g. the calibration manager) of a source in reference to the empirical measurement of the throughput speed of each of the plurality of peer-to-peer network sources (col. 7, lines 44-54); and a transmitter to initiate a download of data to a download source of the plurality of peer-to-peer network sources (abstract; col. 1, lines 10-14; col. 8, lines 20-24; col. 9, lines 59-64).

- Emens did not teach selecting according to a size of data to be obtained. Ramanathan taught the method comprising selecting an empirical measurement of a throughput of each of the plurality of sources, wherein the empirical measurement is selected according to a size of data to be obtained (col. 9, lines 15-23, and 38-59; col. 7, lines 45-50) (i.e., throughput measurement is set (selected) only for transfer exceeding 70 KBtyes); and determining an empirical measurement of a throughput speed of each of the plurality of sources from at least one third-party source (e.g. content server) (col. 3, lines 43-58; col. 5, lines 48-51; col. 6, lines 38-49).
- 18. It would have been obvious to one having ordinary skill in the art at the time of the invention was made to combine the teachings of Emens and Ramanathan because Ramanathan's teaching of selecting an empirical measurement according to a size of data to be obtained would increase the accuracy of Emens's system by allowing performance evaluation based on the size of the transfer data(col. 3, lines 15-27).

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- 19. As per claim 3, Emens and Ramanathan taught the invention substantially as claimed in claim 1 above. Ramanathan further taught obtaining an empirical measurement of a throughput speed of each of the plurality of sources from a local source (col. 3, lines 43-58; col. 6, lines 38-49). (Note that the throughput speed is interpreted as the throughput time (i.e. roundtrip time) as defined according to the specification, page 17, lines 1-7, if the size of the transmission and response is equal for each source tested.)
- As per claim 4, Emens and Ramanathan taught the invention substantially as claimed in claim 1 above. Ramanathan further taught that the performance includes throughput speed (col. 3, lines 43-58; col. 5, lines 48-51; col. 6, lines 38-49).
- 21. It would have been obvious to one having ordinary skill in the art at the time of the invention was made to combine the teachings of Emens and Ramanathan because Ramanathan's method of obtaining the throughput speed would increase the accuracy of Emens's system by providing a measure rate at which data is transferred between server system and a remote personal computer of a subscriber (col. 1, lines 60-65).
- 22. As per claims 5 and 27, Emens and Ramanathan taught the invention substantially as claimed in claims 1 and 25 above. Emens further taught wherein the performance comprises latency (col. 3, lines 55-56).

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As per claim 6, Emens and Ramanathan taught the invention substantially as claimed in claim 5 above. Emens further taught wherein the determining the empirical measurement further comprises:

measuring the elapsed time of a transmission involving each of the plurality of sources (col. 3, lines 56-58).

As per claims 7, 11 and 20, Emens and Ramanathan taught the invention substantially as claimed in claims 5, 8 and 10 above. Emens and Ramanathan further taught wherein the determining the empirical measurement further comprises for each of the plurality of sources:

recording transmission time from the current time and date (see Ramanathan, col. 5, lines 52-62);

initiating a transmission to a download source of the plurality of sources (see Emens, col. 3, lines 49-51);

receiving a response to the transmission from the source (see Emens, col. 3, lines 51-53); recording the receipt time from the current date and time (see Ramanathan, col. 5, lines 52-62); and

determining the throughput speed of the source from the difference between the receipt time and the transmission time (see Emens, col. 3, lines 56-58; col. 5, lines 42-49).

25. As per claim 9, Emens did not teach comprising a download speed. Ramanathan taught wherein the throughput speed further comprises a download speed (col. 2, lines 9-13).

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- 26. It would have been obvious to one having ordinary skill in the art at the time of the invention was made to combine the teachings of Emens and Ramanathan because Ramanathan's method of obtaining the throughput speed would increase the accuracy of Emens's system by providing a measure rate at which data is transferred between server system and a remote personal computer of a subscriber (col. 1, lines 60-65).
- 27. As per claim 19, Emens and Ramanathan taught the invention substantially as claimed in claim 8 above. Emens further taught wherein source further comprises a source in a peer-to-peer network (i.e. data can be exchange freely between two computer) (col. 4, lines 19-22).
- As per claim 26 Emens and Ramanathan taught the invention substantially as claimed in claim 25 above. Emens further taught wherein the throughput speed further comprises a round-trip time (col. 5, lines 48-49).
- 29. As per claim 29, Emens and Ramanathan taught the invention substantially as claimed in claim 28 above. Emens further taught comprising:
 - a transmitter (e.g. the calibration applets) to transmit a message to a download source of the plurality of sources (col. 3, lines 49-51);
 - a recorder (e.g. timer) of the time of a transmission of a message, operably coupled to the transmitter (col. 5, lines 42-45);
 - a receiver of a response to the transmission from the source, operably coupled to the transmitter (col. 3, lines 51-53);

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a recorder (e.g. timer) of the time of receipt of a response (col. 5, lines 42-45); and a determiner (e.g. the calibration manager) of the throughput speed of the source, from the difference between the receipt time and the transmission time (col. 3, lines 56-58; col. 5, lines 42-49).

- Claims 21-24 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Emens and Ramanathan in view of Andrews et al, U.S. Patent Application Publication 2002/0038360 (hereinafter Andrews).
- 31. Andrews was cited in the last office action.
- 32. As per claim 21, Emens taught the invention substantially as claimed for managing a plurality of sources comprising:

obtaining a list comprising a plurality of identification of sources (col. 3, lines 38-46); initiating a plurality of connections, the plurality of connections further comprising one connection for each of the plurality of sources, yielding a plurality of initiated connections (col. 3, lines 48-51);

receiving a response for the each of the plurality of initiated connections, yielding a plurality of responses (col. 3, lines 51-53);

selecting a source of the plurality of sources in reference to the empirical measurement of performance (col. 3, line 66-col. 4, line 3); and

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initiating a download of data from a download source of the plurality of sources (abstract; col. 1, lines 10-14; col. 8, lines 20-24; col. 9, lines 59-64).

- Emens did not teach selecting according to a predetermined file size. Ramanathan taught the method comprising selecting an empirical measurement of a performance of each of the plurality of sources, the empirical measurement is selected according to a predetermined file size (col. 9, lines 15-23, and 38-59; col. 7, lines 45-50) (i.e., throughput measurement is set (selected) only for transfer exceeding 70 KBtyes).
- 34. It would have been obvious to one having ordinary skill in the art at the time of the invention was made to combine the teachings of Emens and Ramanathan because Ramanathan's teaching of selecting an empirical measurement according to a predetermined file size would increase the accuracy of Emens's system by allowing performance evaluation based on the size of the transfer data(col. 3, lines 15-27).
- Emens and Ramanathan did not teach socket connections. Andrews taught socket connections (i.e. three way handshake) could be measured for client accessing a content server (page 4, paragraphs 46 and 47). Note that it is inherent that a three-way handshake is to establish socket connection between a client and a server. The three-way handshake includes initiating a socket connection by using a synchronization (SYN message) and receiving a response (ACK message) for the initiated socket connection.

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- 36. It would have been obvious to one having ordinary skill in the art at the time of the invention was made to combine the teachings of Emens, Ramanathan and Andrews because Andrews's method of measuring the socket connections would increase the efficiency of Emens's and Ramanathan's systems by locating content servers in response to the minimal round trip time (page 1, paragraph 8).
- 37. As per claim 22, Emens, Ramanathan and Andrews taught the invention substantially as claimed in claim 21 above. Emens further taught wherein the selecting further comprises:

selecting the source associated with the response that is received first (col. 3, lines 47-58; col. 3, line 66-col. 4, line 6).

- As per claim 23, Emens, Ramanathan and Andrews taught the invention substantially as claimed in claim 21 above. Emens further taught wherein the selecting further comprises: measuring the latency of each of the plurality of sources (col. 3, lines 47-58); and selecting a source in reference to the download speed of each of the plurality of sources (col. 3, line 66-col. 4, line 6).
- 39. As per claim 24, Emens taught the invention substantially as claimed wherein measuring the latency further comprises:
 - storing a time of each of the plurality of initiating connection (col. 5, lines 42-45); storing the time of each of the plurality of responses (col. 5, lines 42-45); and

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determining the download speed of each of the plurality of sources from the differences in time between the time of each of the plurality of the responses and the time of each of the plurality of the initiating connections (col. 3, lines 56-58; col. 5, lines 42-49). Note that the download speed could be the throughput speed (i.e. or could be the throughput time if the size of the transmission and response is equal for each source tested according to the specification on page 17, lines 1-7) according to the specification, page 13, lines 1-4.

- Emens did not teach including a date with the transmission time or the receipt time.

 Ramanathan taught the method of recording the time and date (col. 5, lines 52-62).
- It would have been obvious to one having ordinary skill in the art at the time of the invention was made to combine the teachings of Emens and Ramanathan because Ramanathan's teaching of recording the transmission date and receipt date would increase the alertness of Emens's system by allowing a user to monitor the transaction with the external network.
- Emens and Ramanathan did not teach socket connections. Andrews taught socket connections (i.e. three way handshake) could be measured for client accessing a content server (page 4, paragraphs 46 and 47).
- It would have been obvious to one having ordinary skill in the art at the time of the invention was made to combine the teachings of Emens, Ramanathan and Andrews because Andrews's method of measuring the socket connections would increase the efficiency of

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Emens's and Ramanathan's systems by locating content servers in response to the minimal round trip time (page 1, paragraph 8).

- As per claim 30, Emens and Ramanathan taught the invention substantially as claimed in claim 28 above. Emens and Ramanathan did not specifically detailing the establishment of the socket connection comprising a TCP/IP synchronized idle message and a TCP/IP acknowledgment message. Andrews taught wherein the transmission further comprises a TCP/IP synchronized idle message (page 4, paragraph 47); and the response further comprises a TCP/IP acknowledgment message (page 4, paragraph 47).
- It would have been obvious to one having ordinary skill in the art at the time of the invention was made to combine the teachings of Emens, Ramanathan and Andrews because Andrews's method of comprising a TCP/IP synchronized idle message and a TCP/IP acknowledgment message would increase the capability of Emens's and Ramanathan's systems by allowing establishment of a socket connection for accessing content on the server.
- Applicant's arguments with respect to claims 1, 3-11 and 19-30, filed 10/18/06, have been fully considered but are not deemed to be persuasive.
- 47. In the remark applicant argued that
 - (1) Ramanathan does not teach or suggest selecting an empirical measurement of a performance of each of the plurality of sources, wherein the empirical measurement

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is selected according to a size of data to be obtained from at least one of the plurality of sources.

- In response to point (1), Ramanathan teaches setting a filtering module at 70 KBtyes for discarding data transfers having a size below 70 KBtyes, and passing only data transfers exceeding 70 Kbytes for throughput measurements (i.e., selecting an empirical measurement according to a size of data to be obtained from at least one of the plurality of sources) (col. 9, lines 15-23, and 38-59). Ramanathan further teaches the throughput measurement are obtained for plurality of remote sites (i.e., plurality of sources) (col. 7, lines 45-50).
- 49. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Muti et al, U.S. Patent 7,139,815

A shortened statutory period for reply to this Office action is set to expire THREE MONTHS from the mailing date of this action. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Philip C Lee whose telephone number is (571)272-3967. The examiner can normally be reached on 8 AM TO 5:30 PM Monday to Thursday and every other Friday. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bunjob Jaroenchonwanit can be reached on (571) 272-3913. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained

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P.L.

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SUPERVISORY PATENT EXAMINER